

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RH/P33031 WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/ 01550	International filing date (day/month/year) 10/04/2003	(Earliest) Priority Date (day/month/year) 10/04/2002
Applicant GLAXO GROUP LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.



Certain claims were found unsearchable (See Box I).

3.



Unity of invention is lacking (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

(CONDENSED) PYRIMIDONE AND (CONDENSED) PYRIDONE COMPOUNDS, PROCESSES FOR THEIR PREPARATION, AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/01550

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D401/12 C07D471/04 C07D417/12 A61K31/47 A61K31/4709
 A61K31/4375 A61P9/10 //(C07D471/04,221:00,221:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 60805 A (SMITH STEPHEN ALLAN; IFE ROBERT JOHN (GB); PINTO IVAN LEO (GB); HI) 23 August 2001 (2001-08-23) claims 1,17,18,20-25; examples 27,67 ---	1-3,5, 9-12, 14-17
A	WO 00 66567 A (FENWICK ASHLEY EDWARD; SMITH STEPHEN ALLAN (GB); IFE ROBERT JOHN ()) 9 November 2000 (2000-11-09) cited in the application claims 1,15-20; examples ---	1-3,6, 9-18
A	WO 00 10980 A (SMITH STEPHEN ALLAN ;LEACH COLIN ANDREW (GB); SMITHKLINE BEECHAM P) 2 March 2000 (2000-03-02) cited in the application claims 1,9-11; examples 13-20 --- -/--	1-3, 12-17

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

30 October 2003

Date of mailing of the international search report

06/11/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/01550

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 24420 A (SMITH STEPHEN ALLAN; IFE ROBERT JOHN (GB); PINTO IVAN LEO (GB); HI) 20 May 1999 (1999-05-20) cited in the application claims 1,15-18; examples 336-359,366-372,376-388 ---	1-3, 12-17
A,P	WO 03 016287 A (SLATER GRAHAM RALPH; SMITH GILLIAN ELIZABETH (GB); ROSS ANDREW R ()) 27 February 2003 (2003-02-27) claim 13 ---	18
A,P	WO 02 30904 A (SMITH STEPHEN ALLEN; LIDDLE JOHN (GB); IFE ROBERT JOHN (GB); PINTO) 18 April 2002 (2002-04-18) cited in the application claims 1,14-18 ---	1,14-18
A,P	WO 02 30911 A (ELLIOTT RICHARD LEONARD; HICKEY DEIRDE MARY BERNADETTE (GB); SMITH) 18 April 2002 (2002-04-18) cited in the application claims 1,14-18 ---	1,14-18
A,P	WO 03 015786 A (ELLIOTT RICHARD LEONARD; SMITH STEPHEN ALLAN (GB); LEACH COLIN AND) 27 February 2003 (2003-02-27) claims 1,14-19 -----	1,14-18

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/01550

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 17 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/01550

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0160805	A	23-08-2001	AU 3546601 A BG 107034 A BR 0108396 A CA 2400554 A1 CN 1418199 T CZ 20022768 A3 WO 0160805 A1 EP 1263740 A1 HU 0204410 A2 JP 2003523335 T NO 20023828 A SK 11772002 A3 US 2002103213 A1 ZA 200206528 A	27-08-2001 30-04-2003 11-03-2003 23-08-2001 14-05-2003 14-05-2003 23-08-2001 11-12-2002 28-05-2003 05-08-2003 30-09-2002 04-02-2003 01-08-2002 13-03-2003
WO 0066567	A	09-11-2000	AU 4120300 A BR 0010220 A CA 2371671 A1 CN 1358175 T CZ 20013904 A3 WO 0066567 A1 EP 1175408 A1 HU 0201122 A2 JP 2002543190 T NO 20015329 A PL 351690 A1 TR 200103216 T2 ZA 200108991 A	17-11-2000 14-05-2002 09-11-2000 10-07-2002 17-04-2002 09-11-2000 30-01-2002 28-08-2002 17-12-2002 31-10-2001 02-06-2003 22-04-2002 20-10-2002
WO 0010980	A	02-03-2000	AT 251613 T WO 0010980 A1 EP 1105377 A1 JP 2002523402 T US 6559155 B1	15-10-2003 02-03-2000 13-06-2001 30-07-2002 06-05-2003
WO 9924420	A	20-05-1999	AU 1157599 A CA 2309177 A1 DE 69816471 D1 WO 9924420 A1 EP 1028955 A1 JP 2001522844 T US 2002120139 A1 US 6417192 B1 ZA 9810112 A	31-05-1999 20-05-1999 21-08-2003 20-05-1999 23-08-2000 20-11-2001 29-08-2002 09-07-2002 05-05-2000
WO 03016287	A	27-02-2003	WO 03016287 A2	27-02-2003
WO 0230904	A	18-04-2002	AU 1052402 A CA 2425268 A1 WO 0230904 A1 EP 1326841 A1 NO 20031626 A	22-04-2002 18-04-2002 18-04-2002 16-07-2003 04-06-2003
WO 0230911	A	18-04-2002	AU 2359902 A WO 0230911 A1 EP 1337517 A1	22-04-2002 18-04-2002 27-08-2003
WO 03015786	A	27-02-2003	WO 03015786 A1	27-02-2003

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